

Corporate office & Factory Address:
Krystalvision Image Systems Pvt. Ltd.
Shri Sant Dnyaneshwar Industrial Estate, Plot No. 58 & 59/2
D-II Block MIDC Chinchwad, Pune-411019
Tel No. +91 20 46703475, +91 7028052228
Email ID: sales@krystalvision.co.in, svd@krystalvision.co.in
Website: www.krystalvision.co.in

KRYSTALVISION™

KRYSTALVISION IMAGE SYSTEMS PVT. LTD.



Advanced X-Ray & Explosive Threat Detection Systems for Homeland Security



Artificial Intelligence (AI) based threat detection

MADE IN INDIA

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Krystalvision

Advanced X-Ray & Explosive Threat Detection Systems For Homeland Security

About Krystalvision

Krystalvision Image Systems Pvt. Ltd., "Krystalvision" was formed in 2011 to provide innovative and high quality products to the growing security scanning market. The company has more than 10 years of experience and expertise in design and development of baggage scanners, portable scanners, vehicle mounted scanners, large cargo scanners and explosive detectors. All xray products are certified by Atomic Energy Regulatory Board of India (AERB), CE, ISO 9001:2009, Indian Railways and ISO 14001.

Krystalvision is an established and leading original equipment manufacturer of state of art advanced 'Made in India' x ray baggage scanners in Pune, India. The company focuses on requirements of government and private sector clients to equip them with modern and technically superior products at reasonable cost. The objective of the company is to design, manufacture, supply and service security products and solutions. Krystalvision is constantly working to improve and simplify x-ray technology and is a trusted security partner to well-known companies and government.

Krystalvision provides eight product lines:

01 5 Series - Parcel & Small X-Ray Baggage Scanners
KV5030TT, KV5030 & Kv5532

02 6 Series - Hand & Cabin X-Ray baggage scanners
KV6040SV, KV6040 3D, KV6040DV, KV6550, KV6550 3D & KV6550 DV

03 Series 7 and 10 - Luggage & Registered X-Ray baggage scanners
KV7560, KV7560DV, KV10080, KV100100 & KV100100DV

04 Cargo Series- Cargo & Pallet X-Ray Baggage Scanners
KV130130, KV130130DV, KV150180, KV150180DV & KV180180DV

05 Mobile VS Series - Vehicle Mounted X-Ray Inspection Systems
KV6040VS, KV6550VS, KV7560VS & KV100100VS

06 Artificial Intelligence Based X-Ray Baggage Scanners

07 Explosive Detector- OPX Revilator

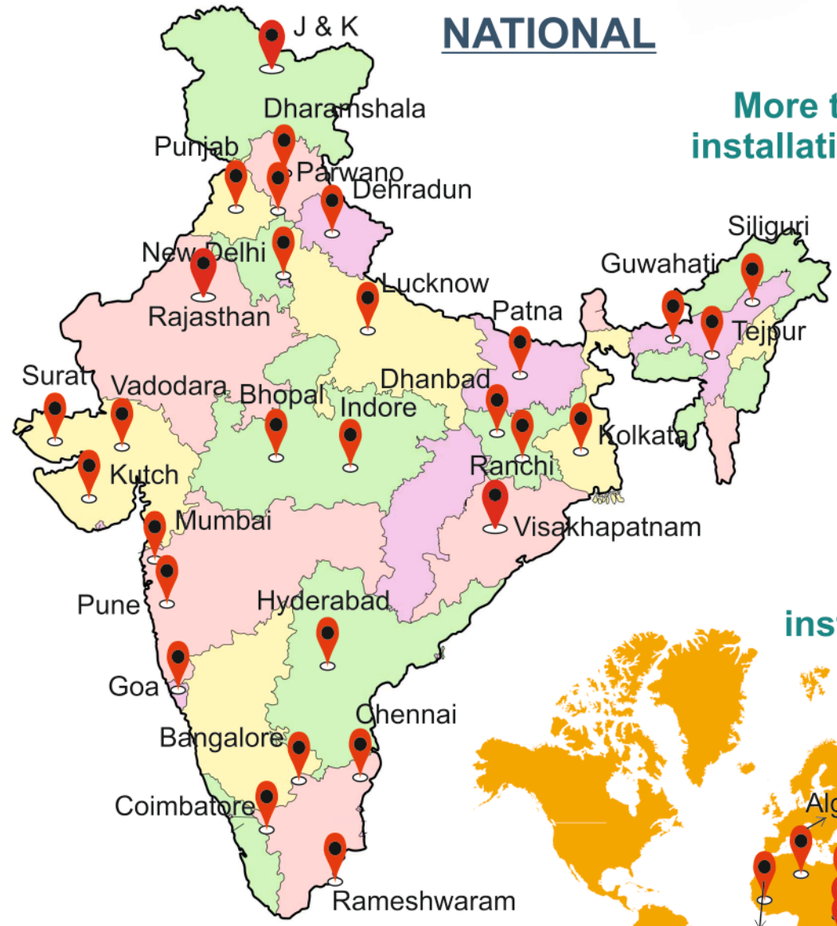
08 RTVS Series - Real Time Viewing System

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National & Global Footprint

NATIONAL

More than 1000 installations in India



GLOBAL

More than 50 installations globally



Service Support Locations

East region: east@krystalvision.co.in - Kolkatta, Guwahati, Barauni

West region:- west@krystalvision.co.in - Mumbai, Pune, Nagpur, Ahmedabad, Jamnagar

North Region:- north@krystalvision.co.in - Delhi, Lucknow, Jaipur

South Region:- south@krystalvision.co.in - Bangalore, Chennai, Hyderabad

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Our Customers

GOVERNMENT

INDIAN ARMY · INCOME TAX DEPARTMENT · GUJARAT POLICE · TAMILNADU POLICE · IndianOil · PORT OF CHENNAI · Rashtriya Chemicals and Fertilizers Limited · हिमाचल प्रदेश पुलिस · INDIAN RAILWAYS · Maharashtra Prison Department · NAGPUR METRO · Chennai Metro Rail · महाराष्ट्र पोलीस · md · DP · OFB ORDNANCE FACTORY BOARD MINISTRY OF DEFENCE, GOI · MPT Mormugao Port Trust, GOA · Central Board of Excise and Customs Department of Revenue, Ministry of Finance, Government of India · INDIAN NAVY · DAE · Bank of Maharashtra · Ministry of Home Affairs · RESERVE BANK OF INDIA

CORPORATE

KANAKIA · HYUNDAI · Reliance Industries Limited · Apollo HOSPITALS · CGPL Coastal Gujarat Power Limited · BAJAJ · flipkart.com · amazon · adani · Microsoft · Windlass Steelcrafts · TATA TATA POWER · MPL MAITHON POWER LIMITED · snapdeal · Thinksoft · DLF · Sir H. N. Reliance Foundation Hospital And Research Centre RESPECT FOR LIFE · TATA TATA INTERNATIONAL · NAYARA ENERGY · Mahindra LOGISTICS · murugappa · SIEMENS Ingenuity for life · Schneider Electric · DELHIVERY · nelco unlock potential · TATA CONSULTANCY SERVICES

HOTELS & MALLS

Park Plaza · COURTYARD Marriott · TAJ · RAMADA BY WYNDHAM · HYATT PLACE · Hilton HOTELS & RESORTS · ROYAL ORCHID HOTELS · Radisson BLU · FORTUNE Member ITC's hotel group · keys HOTELS · DOUBLETREE BY HILTON · HYATT · DAVANAM SAROVAR PORTICO SUITES bengaluru - koramangala A SAROVAR HOTEL · THE LODHI · Holiday Inn AN IHG HOTEL · Hilton Garden Inn

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Quality You can Trust

You can rely on Krystalvision to consistently meet all specifications on product quality. Our attention to quality is the foundation of our success and is the reason some of the largest customers rely on us to provide best detection capabilities.

We put products through rigorous quality testing in pre-production stages to qualify performance and reliability. Moreover, each individual system undergoes various quality, stress and final inspection tests before delivery to our customers. Our products comply with international quality standards and have been tested and certified as such by 3rd parties such as NABL labs and government agencies. Our facility is compliant with current AERB regulations.

Rental Support

Krystalvision provides rent/hire options to customers for immediate security coverage. Krystalvision has years of experience setting up X-Ray machine rentals for a wide variety of short and long term events. The events include sporting events, political rallies, exhibitions, VIP programs to corporate meetings.

Service Support

- Company employed dedicated service engineers all over India
- Timely availability of spares support
- Online service support through remote access 24x7
- After sales service support and AMC/CAMC for assured reliability
- Safety Audits

USP

- Superior product quality and reliability
- Quick and effective service support
- 'Made in India' (MII) products qualifying for Class I supply
- In-house research and development and tie up with prestigious Indian laboratories
- Accurate detection of explosives and narcotics
- Artificial intelligence based automated threat detection solutions
- Best in class penetration and resolution

Certificates

CERTIFIED ISO 9001:2015 COMPANY · CERTIFIED ISO 14001 COMPANY · AERB · IEC · CE · FOOD SAFETY

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Krystalvision 5 Series

Parcel & Small X-Ray Baggage Scanners

Summary

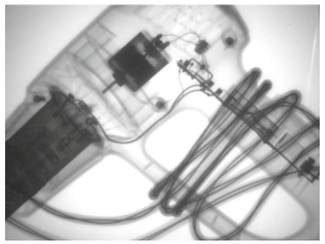
Krystalvision offers 5 Series - x-ray baggage scanners that are designed for scanning small objects like mail, parcel and small baggage. Series 5 x ray scanners are compact, portable and can be wheeled for rapid relocation making it the ideal system for hotels, shopping malls, convention centers and event based security environments or where space is at a premium.

Krystalvision 5 Series scanners utilize dual energy detectors, optimized x ray generator and advanced proprietary image processing algorithms to provide the user with best-in-class high resolution image quality and excellent threat detection capability. Customization is possible to suit to your specific requirements.

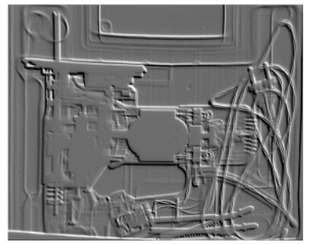
Key Features

- High reliability and availability
- Advanced high resolution imaging
- Best-in-class threat detection capabilities
- Easy to operate ergonomic user interface
- Integrated self-diagnostic reporting capability
- Meets all Government safety regulations
- Lower total cost of ownership (TCO)
- Excellent pre & post sales support





Realtime High Resolution Image



3D Emboss Image

TECHNICAL SPECIFICATIONS

PHYSICAL SPECIFICATIONS

Model No.	KV5030TT	KV5030	KV5532
Tunnel Opening in MM	500 (W) x 300 (H)	500 (W) x 300 (H)	550 (W) x 320 (H)
Overall Dimensions in MM	1270 (L) x 735 (W) x 940 (H) Approx.	1380 (L) x 740 (W) x 1190 (H) Approx.	1380 (L) x 800 (W) x 1210 (H) Approx.
Conveyor Load Capacity	100 kg evenly distributed	100 kg evenly distributed	160 kg evenly distributed
Conveyor/Belt Speed	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional
Conveyor Height	320 mm Approx.	750 mm Approx.	750 mm Approx.

GENERAL SPECIFICATIONS

Steel Penetration	14 to 24 mm
Wire Resolution	40 SWG
Power Requirements	160-240 VAC,50Hz, 6 Amp
Video Display/ Resolution	15" high resolution laptop / 1920 x 1280; 24 bit/pixel color
X-ray Voltage/Tube current	120-270 KVA/0.7-1.2 mA
X-ray Type /Detector	Pulsed (0 to 99 pulses)/continuous / Flat array & camera based
Data transmission/time	Wired & wireless / Less than 5 Second
Storage /Operating Temperature/Humidity	-20°C to 70°C / 0°C to 50°C / Up to 95% non-condensing
Beam Divergence	Open
Computer	Intel i5 processor on Windows OS.
Safety Certifications	ISO 9001:2015, ISO 14001, CE, IEC,
Safety feature	Electrical safety features, software emergency stop, x-ray on indicating lamps, audio/visual alarm

IMAGE PROCESSING & ADDITIONAL SOFTWARE FEATURES

Machine diagnostics	Start-up self-diagnostics and alerts to user to indicate faults
Tagging & marking/ Zoom	Automatically tracks date, time, mark area, annotate by text or shapes, image stitching & image summing / Upto 32 times
Material discrimination & Display Type	Black & white imaging, pseudo color, negative, sharpen, image cleaning, 3D emboss, edge detection, sharpening, brightness, gamma.
Image storage/ Image recall & archive	Store up to 200,000 images / All previous images recall possible

OPTIONAL FEATURES & ACCESSORIES

- Carrying Bag, Tripod, ROV attachment, Printer, radiation meter, maintenance tools
- Extended power backup i.e. Extra battery for field operations

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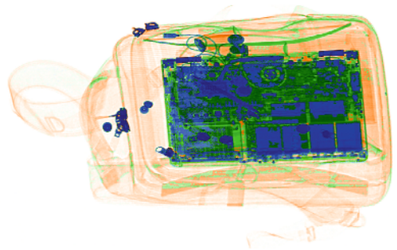
KrystalvisionRTVS Series
Real Time Viewing System

Summary

Krystalvision offers RTVS Series portable x-ray inspection systems designed for suspicious baggage found on field and remote locations. The system consists of a laptop, x-ray source and image capturing panel. The system is designed keeping in mind the need of security personal on the field and offers outstanding x-ray image quality down to the smallest detail.

The Krystalvision RTVS Series portable x-ray inspection system is light weight, easily configurable for different environments and can be setup in minutes by one person. It comes with choice of x-ray sources and has both wired & wireless capabilities. This system is ruggedized to handle harsh conditions. It is ideal system for Explosive Ordinance Disposal (EOD) operations, bomb squads, special forces operations etc.





Advanced Material Discrimination



Automatic Detection & Alerts

Key Features

- Superior & efficient detection capabilities
- Setup in minutes by one person
- Wire & wireless operations
- Flat & camera based imaging screen
- Lower total cost of ownership
- Excellent pre & post sales support
- Real time image capture & analysis.

TECHNICAL SPECIFICATIONS

PHYSICAL SPECIFICATIONS

Model No.	KVPS
Imaging Screen	430 mm (W) x 330 mm (H) or more
Overall Dimensions	900 mm(L) x 700 mm(W) x 400 mm(H) Approx.
Weight	50 Kg Approx. including packing

GENERAL SPECIFICATIONS

Steel Penetration	12 mm to 37 mm
Wire Resolution	42 SWG Typical, 40 SWG Guaranteed
Power Requirements	230VAC:160-280 VAC, 50Hz, 6 Amp
Display / Resolution/ Sensitivity	22" or more High Resolution, Full HD LED Color Monitor, 1920 x 1280; 24 bit/pixel color and 24 Visible Levels, 65535 Gray Levels
Anode Voltage / Beam Divergence	100-180 KVA / Upward or downward beam direction
Tube Current/ Cooling / Duty Cycle	0.1-1.2 mA / Sealed oil bath with forced air /100%
Storage /Operating Temperature / Humidity	-20°C to 70°C / 0°C to 50°C / Up to 95% non-condensing
Computer	Intel i5 processor on Windows OS.
Safety Certifications	AERB, ISO 9001:2015, ISO 14001, CE, IEC, Food & Film safety certified.

IMAGE PROCESSING & ADDITIONAL SOFTWARE FEATURES

Machine diagnostics	Start-up and continuous self-diagnostics and alerts to user to indicate faults
Tagging / Zoom	Automatically tracks baggage count, date, time, operator ID / Variable zoom up to 64 X, Sniper zoom, 9 quadrant zoom
Material discrimination	3 & 6 color imaging, greyscale imaging, pseudo color imaging, organic & inorganic imaging
Image storage/ Image recall & archive	Store up to 200,000 images / All previous images recall possible
Additional features	4 secure levels of access, programmable keys, high/low penetration, variable edge enhancement, variable brightness and contrast, inverse or negative color imaging, HiSpot/super enhancement, one key shut down, network ready, threat detection alerts, TIP (Threat Image Projection).

OPTIONAL FEATURES & ACCESSORIES

- Dual monitor: One color and one black & white monitor
- Network Supervisory Workstation (NWS), Suspect Search Station (SSS)
- Combined Test Piece (CTP), in & out camera, Dust proof cover, Control desk
- UPS, Stabilizer, printer and I/O roller tables

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Krystalvision 6 Series

Hand & Cabin X-Ray Baggage Scanners

Summary

Krystalvision offers 6 Series - x-ray baggage scanners that are designed for scanning cabin baggage and medium size baggage. 6 Series x ray scanners are most popular due to their small footprint, ability to blend into building entrance environment and scan large volumes efficiently. These are commonly installed in government buildings, corporate offices, transportation infrastructure etc.

Krystalvision 6 Series scanners utilize dual energy detectors, optimized x ray generator and advanced proprietary image processing algorithms to provide the user with best-in-class high resolution image quality and excellent threat detection capability. Customization is possible to suit to your specific requirements.

Key Features

- High reliability and availability
- Advanced high resolution imaging
- Best-in-class threat detection capabilities
- Dual View and Virtual 3D models available
- Integrated Self-diagnostic reporting capability
- Meets all Government safety regulations
- Lower total cost of ownership (TCO)
- Excellent pre & post sales support
- Low bed model available



TECHNICAL SPECIFICATIONS

PHYSICAL SPECIFICATIONS

Model No.	KV6040 SV	KV6040 3D	KV6040 DV	KV6550	KV6550 3D	KV6550 DV
Tunnel Opening in MM	600(W) x 400(H)	600(W) x 400(H)	600(W) x 400(H)	650(W) x 500(H)	650(W) x 500(H)	650(W) x 500(H)
Overall Dimensions in MM	2020 (L) x 900 (W) x 1230 (H) Approx.	2020 (L) x 900 (W) x 1230 (H) Approx.	2020 (L) x 1200 (W) x 1330 (H) Approx.	2020 (L) x 950 (W) x 1330 (H) Approx.	2020 (L) x 950 (W) x 1330 mm(H) Approx.	2020 (L) x 1250 (W) x 1430 (H) Approx.
Conveyor Load Capacity	170 kg evenly distributed	170 kg evenly distributed	170 kg evenly distributed	170 kg evenly distributed	170 kg evenly distributed	170 kg evenly distributed
Conveyor/Belt Speed	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional
Conveyor Height	750 mm Approx.	750 mm Approx.	750 mm Approx.	750 mm Approx.	750 mm Approx.	750 mm Approx.

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KV OPX Revilator Explosive Detector

Hand Held Explosive Detector for Pre and Post Blast Detection

Summary

The KV OPX Revilator is a hand held explosive detector that represents cutting edge technology for pre and post blast analysis and identification of explosives in pure form and traces.

The suspected sample for test is collected directly or by swabbing and placed in the test tray. The detector can accurately identify explosive compositions being used by anti-social elements.

KV OPX Revilator is light weight and easy to use with minimal training. The intuitive user interface guides the user at every step and displays the name of the explosive on the screen. It's form and functionality are the result of years of research and development which is now available for security agencies.

KV OPX Revilator does not contain radioactive source and is absolutely safe for operator. Therefore, there are no limitations for purchasing, storage, transporting, and utilization of the device.

Key Features

- Hand held easy to use Device
- Patented Proven technology
- Explosive Name Identification
- Ready in under a minute



General Specifications

- Dimensions - 185 mm (L) x 126 mm (W) x 75 mm (H)
- Weight - 480 g (including battery)
- Display Size - LCD screen (60 mm x 30 mm)
- Power - Mains or rechargable battery with 6 hours of operations
- Trace Collection - Direct or Swab

Detection Specifications

- Technology used - Automated colorimetric detection of explosives
- Form ofexplosive - Pure or with contaminants such as mud, diesel, sugar
- State ofExplosive - Solid or Liquid
- Identification Time - Less than 3 minutes
- Trace Collection - Direct or Swab

Identifiable Explosives

- Classes of Explosives Identified – Nitramines, Nitro-aromatics, Nitrate Esters, Inorganic Nitrates,
- Non Comprehensive List of Explosives Identified - RDX- COMPOSITION A, HMX- COMPOSITION B, FOX-7 – COMPOSITION C-4, CL-20 – CYCLOTOL, ANFO- DENTEX, NTO- LTPE, PETN- OCTOL

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Artificial Intelligence (AI) Powered Screening
Automated next generation threat detection

Summary

Krystalvision's Artificial Intelligence (AI) and Machine Learning (ML) based algorithms enable automatic detection of an ever-expanding list of prohibited items.

Krystalvision Artificial Intelligence (AI) deep-learning algorithms effectively model the synapses of the human brain. The algorithms analyse visual images and extract the object's characteristics to create a model that identifies an entire class of objects.

The AI software is able to identify dangerous objects anywhere in a scanned image, even if they are rotated, partially obscured, or vary in size. Potential threats are framed and shown on the main system screen in real time. AI software can automatically stop the conveyor to alert the operator of critical threats.

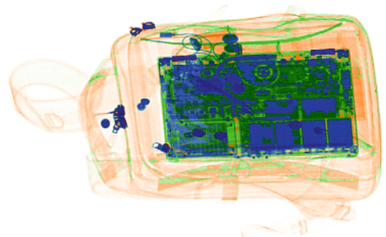
The AI software is implemented for gun, gun components and sharp objects. The new AI algorithms are offered as an option on new systems and as an upgrade on older systems. There is no need for additional hardware such as extra monitor, computer or a server. The AI software is developed as an integral part of the x-ray system to keep hardware complexity to a minimum. This will keep the maintenance cost down.

In future, more and more AI algorithms will be added to this suite to identify "items of interest' such as lithium batteries.

Key Features

- Automatically detects handguns and sharp objects
- Industry leading detection rates
- Low false alarm rate
- Reduces operator error and fatigue
- Increases throughput
- Automatic square highlight around threats
- Inbuilt AI software that requires no additional hardware or monitor
- Ever expanding threat library





Advanced Material Discrimination



Automatic Detection & Alerts

GENERAL SPECIFICATIONS

Steel Penetration	Standard: 37 mm, Typical: 39 mm
Wire Resolution	42 SWG Typical, 40 SWG Guaranteed
Power Requirements	230VAC:160-280 VAC, 50Hz, 6 Amp
Display / Resolution/ Sensitivity	22" or more High Resolution, Full HD LED Color Monitor, 1920 x 1280; 24 bit/pixel color and 24 Visible Levels, 65535 Gray Levels
Anode Voltage / Beam Divergence	100-180 KVA / Upward or downward and from side for dual view
Tube Current/ Cooling / Duty Cycle	0.1-1.2 mA / Sealed oil bath with forced air /100%
Storage /Operating Temperature / Humidity	-20ºC to 70ºC / 0ºC to 50ºC / Up to 95% non-condensing
Computer	Intel i5 processor on Windows OS.
Safety Certifications	AERB, ISO 9001:2015, ISO 14001, CE, IEC, Food & Film safety certified.

IMAGE PROCESSING & ADDITIONAL SOFTWARE FEATURES

Machine diagnostics	Start-up and continuous self-diagnostics and alerts to user to indicate faults
Tagging / Zoom	Automatically tracks baggage count, date, time, operator ID / Variable zoom up to 64 X, Sniper zoom, 9 quadrant zoom
Material discrimination	3 & 6 color imaging, greyscale imaging, pseudo color imaging, organic & inorganic imaging
Image storage/ Image recall & archive	Store up to 200,000 images / All previous images recall possible
Additional features	4 secure levels of access, programmable keys, high/low penetration, variable edge enhancement, variable brightness and contrast, inverse or negative color imaging, HiSpot/super enhancement, one key shut down, network ready, threat detection alerts, TIP (Threat Image Projection).

OPTIONAL FEATURES & ACCESSORIES

- Dual monitor: One color and one black & white monitor
- Network Supervisory Workstation (NWS), Suspect Search Station (SSS)
- Combined Test Piece (CTP), in & out camera, Dust proof cover, Control desk
- UPS, Stabilizer, printer and I/O roller tables

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Krystalvision Series 7 & 10
Luggage & Cargo X-Ray Baggage Scanners

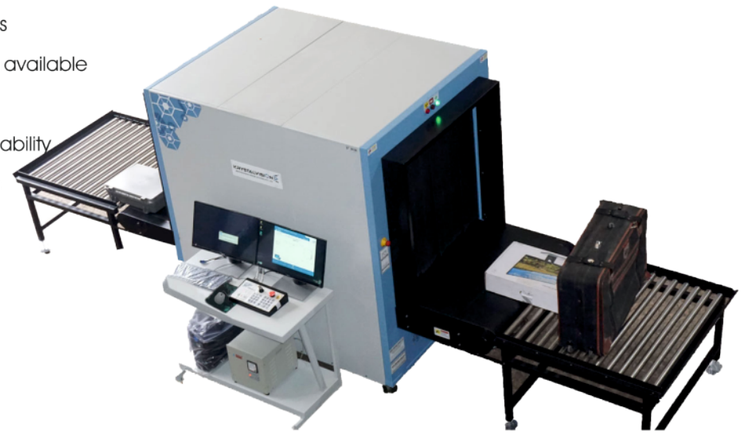
Summary

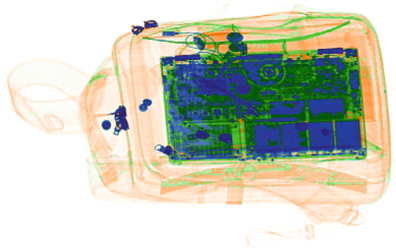
Krystalvision offers 7 and 10 Series - x-ray baggage scanners that are designed for scanning large suitcases, checked in luggage, cargo and large size baggage. 7 and 10 Series x ray scanners are deployed for security screening of passengers in railway stations, metros, airports, sea ports. Low bed option is ideal for hotels, customs facilities, parcel services etc.

Krystalvision 7 and 10 Series scanners utilize dual energy detectors, optimized x ray generator and advanced proprietary image processing algorithms to provide the user with best-in-class high resolution image quality and excellent threat detection capability. Customization is possible to suit to your specific requirements.

Key Features

- High reliability and availability
- Advanced high resolution imaging
- Best-in-class threat detection capabilities
- Dual View option for improved detection available
- Low bed conveyor options available
- Integrated Self-diagnostic reporting capability
- Meets all Government safety regulations
- Lower total cost of ownership (TCO)
- Excellent pre & post sales support





Advanced Material Discrimination



Automatic Detection & Alerts

GENERAL SPECIFICATIONS

Steel Penetration	26 mm to 35 mm
Wire Resolution	42 SWG Typical, 40 SWG Guaranteed
Power Requirements	230VAC:160-280 VAC, 50Hz, 6 Amp
Display / Resolution/ Sensitivity	22" or more High Resolution, Full HD LED Color Monitor, 1920 x 1280; 24 bit/pixel color and 24 Visible Levels, 65535 Gray Levels
Anode Voltage / Beam Divergence	100-180 KVA / Upward or downward
Tube Current/ Cooling / Duty Cycle	0.1-1.2 mA / Sealed oil bath with forced air /100%
Storage /Operating Temperature / Humidity	-20°C to 70°C / 0°C to 50°C / Up to 95% non-condensing
Computer	Intel i5 processor on Windows OS.
Safety Certifications	AERB, ISO 9001:2015, ISO 14001, CE, IEC, Food & Film safety certified.

TECHNICAL SPECIFICATIONS

PHYSICAL SPECIFICATIONS

Model No.	**KV7560**	**KV7560 DV**	**KV10080**	**KV100100**	**KV100100 DV**
Tunnel Opening in MM	750(W) x600 (H)	750(W)x 600 (H)	1000(W)x800 (H)	1000(W) x1000 (H)	1000 (W) x 1000 (H)
Overall Dimensions in MM	2200 (L) x 1050 (W) x 1560 (H) Approx.	2200 (L) x 1350 (W) x 1660 (H) Approx.	2960 (L) x 1310 (W) x 1620 (H) Approx.	2960 (L) x 1310 (W) x 1820 (H) Approx.	2960 (L) x 1610 (W) x 1920 (H) Approx.
Conveyor Load Capacity	180 kg evenly distributed	180 kg evenly distributed	200 kg evenly distributed	200 kg evenly distributed	200 kg evenly distributed
Conveyor/Belt Speed	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional
Conveyor Height (Low/hi bed)	Low bed- 320 mm / Hi-bed- 750 mm Approx.	Low bed- 320 mm / Hi-bed- 750 mm Approx.	Low bed- 320 mm / Hi-bed- 650 mm Approx.	Low bed- 320 mm / Hi-bed - 650 mm Approx.	Low bed- 320 mm / Hi-bed - 650 mm Approx.

IMAGE PROCESSING & ADDITIONAL SOFTWARE FEATURES

Machine diagnostics	Start-up and continuous self-diagnostics and alerts to user to indicate faults
Tagging / Zoom	Automatically tracks baggage count, date, time, operator ID / Variable zoom up to 64 X, Sniper zoom, 9 quadrant zoom
Material discrimination	3 & 6 color imaging, greyscale imaging, pseudo color imaging, organic & inorganic imaging
Image storage/ Image recall & archive	Store up to 200,000 images / All previous images recall possible
Additional features	4 secure levels of access, programmable keys, high/low penetration, variable edge enhancement, variable brightness and contrast, inverse or negative color imaging, HiSpot/super enhancement, one key shut down, network ready, threat detection alerts, TIP (Threat Image Projection).

OPTIONAL FEATURES & ACCESSORIES

- Dual monitor: One color and one black & white monitor
- Network Supervisory Workstation (NWS), Suspect Search Station (SSS)
- Combined Test Piece (CTP), in & out camera, Dust proof cover, Control desk
- UPS, Stabilizer, printer and I/O roller tables
- CCTV, awaning, Push to talk system, airconditioning, wheel jacks

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Image performance specifications are based OEM test piece.

Krystalvision MobileVS Series
Vehicle Mounted X-Ray Inspection Systems

Summary

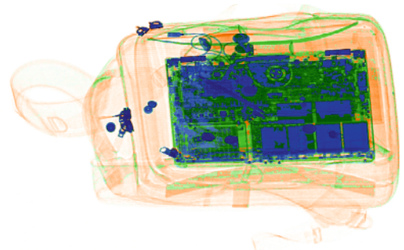
Krystalvision MobileVS Series x ray machines are low bed Vehicle Mounted X ray Baggage Inspection Systems (XBIS) of different tunnel sizes. MobileVS Series has been developed to protect VIPs/event crowds at remote locations where permanent security infrastructure is not available. It can also be used in the commercial security market at locations such as concerts, sports arenas, convention centers, trade shows, and at other places where temporary checkpoints are needed. Built using a Tata vehicle, MobileVS Series x ray machines offer a compact and versatile platform for quick mobility, introducing an element of surprise for effective deterrence. MobileVS Series has advanced state of the art x ray system capable of scanning many items that are commonly brought including office bags, backpacks, bags, gift boxes, flower arrangements etc. Vehicles are equipped with CCTV system, intercom system, air conditioning system, power backup with UPS / Power generator.

MobileVS Series scanners utilize dual energy detectors, optimized x ray generator and advanced proprietary image processing algorithms to provide the user with best-in-class high resolution image quality and excellent threat detection capability. Customization is possible to suit to your specific requirements.

Key Features

- High reliability and availability
- Advanced high resolution imaging
- Best-in-class threat detection capabilities
- Motorized & foldable entry & exit tables allows for easy handling
- CCTV Monitoring
- Integrated Self-diagnostic reporting capability
- Meets all Government safety regulations
- Lower total cost of ownership (TCO)
- Excellent pre & post sales support





Advanced Material Discrimination



Automatic Detection & Alerts

GENERAL SPECIFICATIONS

Steel Penetration	26 mm to 35 mm
Wire Resolution	42 SWG Typical, 40 SWG Guaranteed
Power Requirements	230VAC:160-280 VAC, 50Hz, 6 Amp
Display / Resolution/ Sensitivity	22" or more High Resolution, Full HD LED Color Monitor, 1920 x 1280; 24 bit/pixel color and 24 Visible Levels, 65535 Gray Levels
Anode Voltage / Beam Divergence	100-180 KVA / Upward or downward and from side for dual view
Tube Current/ Cooling / Duty Cycle	0.1-1.2 mA / Sealed oil bath with forced air /100%
Storage /Operating Temperature / Humidity	-20°C to 70°C / 0°C to 50°C / Up to 95% non-condensing
Computer	Intel i5 processor on Windows OS.
Safety Certifications	AERB, ISO 9001:2015, ISO 14001, CE, IEC, Food & Film safety certified.

TECHNICAL SPECIFICATIONS

PHYSICAL SPECIFICATIONS

Model No.	KV6040VS	KV6550VS	KV7560VS	KV100100VS
Tunnel Opening in MM	600 (W) x 400 (H)	650 (W) x 500 (H)	750 (W) x 600 (H)	1000 (W) x 1000 (H)
Overall Dimensions in MM	2020 (L) x 900 (W) x 1330 (H) Approx.	2020 (L) x 950 (W) x 1360 (H) Approx.	2020 (L) x 950 (W) x 1330 (H) Approx.	2020 (L) x 950 (W) x 1330 (H) Approx.
Conveyor Load Capacity	160 kg evenly distributed	175 kg evenly distributed	180 kg evenly distributed	200 kg evenly distributed
Conveyor/Belt Speed	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional
Conveyor Height	450 mm Approx.	450 mm Approx.	450 mm Approx.	450 mm Approx.

IMAGE PROCESSING & ADDITIONAL SOFTWARE FEATURES

Machine diagnostics	Start-up and continuous self-diagnostics and alerts to user to indicate faults
Tagging / Zoom	Automatically tracks baggage count, date, time, operator ID / Variable zoom up to 64 X, Sniper zoom, 9 quadrant zoom
Material discrimination	3 & 6 color imaging, greyscale imaging, pseudo color imaging, organic & inorganic imaging
Image storage/ Image recall & archive	Store up to 200,000 images / All previous images recall possible
Additional features	4 secure levels of access, programmable keys, high/low penetration, variable edge enhancement, variable brightness and contrast, inverse or negative color imaging, HiSpot/super enhancement, one key shut down, network ready, threat detection alerts, TIP (Threat Image Projection).

OPTIONAL FEATURES & ACCESSORIES

- Dual monitor: One color and one black & white monitor
- Network Supervisory Workstation (NWS), Suspect Search Station (SSS)
- Combined Test Piece (CTP), in & out camera, Dust proof cover, Control desk
- UPS, Stabilizer, printer and I/O roller tables

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Krystalvision Cargo Series
Heavy Cargo & Palletized Cargo X-Ray scanners

Summary

Krystalvision Cargo X-ray scanners are designed for the inspection of large-scale combined and palletized items. Krystalvision Cargo series is equipped with single & dual x-ray generators. The dual view system provides sharp, accurate and reliable individual images of scanned goods. The cargo series is capable of screening LD3 containers.

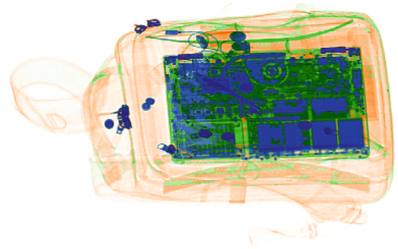
Krystalvision cargo series scanners utilize dual energy detectors, optimized x ray generator and excellent proprietary image processing algorithms to provide the user with best-in-class high resolution image quality and excellent threat detection capability. Customization is possible to suit to your specific requirements.

Cargo x ray scanners are ideal for ware houses, air cargo, rail cargo, border crossings, sea ports etc.

Key Features

- High-penetration capabilities to avoid segregation of individual packages
- Excellent high resolution imaging
- Best-in-class threat detection capabilities
- Dual View inspection to shorten inspection time
- Rugged motorized roller conveyors
- Integrated Self-diagnostic reporting capability
- Meets all government safety regulations
- Lower total cost of ownership (TCO)
- Excellent pre & post sale support





Advanced Material Discrimination



Automatic Detection & Alerts

GENERAL SPECIFICATIONS

Steel Penetration	35 mm to 55 mm
Wire Resolution	42 SWG Typical, 40 SWG Guaranteed
Power Requirements	230VAC:160-280 VAC, 50Hz, 6 Amp, Single ph / 420VAC:310-420 VAC,50Hz, 3 ph
Display/ Resolution / Sensitivity	22" or more High Resolution, Full HD LED Color Monitor, 1920 x 1080 or better, 24 bit/pixel color and 24 visible levels, 65535 gray levels
Voltage/ Beam Divergence	200-350 KVA / Upward or downward & side ward for dual view
Tube Current/ Cooling/ Duty Cycle	0.7-2.0 mA / Sealed oil bath with forced air / 100%
X-Ray Detector	"L"-Shaped Photo Diode array
Storage Temp. /Operating Temp. / Humidity	-20°C to 70°C / 0°C to 50°C / Up to 95% non-condensing
Computer:- Operating Platform /Processor /HDD/RAM	Windows 10 / Intel i5 or better processor/ 1TB HDD/8GB RAM
Safety Certifications	AERB, ISO 9001:2015, ISO 14001, CE, IEC, Food & Film safe certified.

TECHNICAL SPECIFICATIONS

PHYSICAL SPECIFICATIONS

Model No.	KV130130	KV130130DV	KV150180	KV150180DV	KV180180DV
Tunnel Opening in mm	1300 (W) x 1300(H)	1300 (W) x 1300(H)	1500 (W) x 1800(H)	1500 (W) x 1800(H)	1800 (W) x 1800(H)
Overall Dimensions in mm	5500 (L) x 2110 (W) x 2056 (H) Approx.	5500 (L) x 2110 (W) x 2056 (H) Approx.	5600 (L) x 2310 (W) x 2556 (H) Approx.	5600 (L) x 2310 (W) x 2556 (H) Approx.	5600 (L) x 2650 (W) x 2556 (H) Approx.
Conveyor Load Capacity	2-3 ton evenly distributed	2-3 ton evenly distributed	3-4 ton evenly distributed	3-4 ton evenly distributed	3-5 ton evenly distributed
Conveyor/Belt Speed	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional	0.18-0.3 m/s Bidirectional
Conveyor Height (Low/hi bed)	Low bed- 350 mm approx. / Hi-bed- 750 mm Approx.	Low bed- 350 mm approx./Hi-bed- 750 mm Approx.	Low bed- 350 mm approx./Hi-bed- 750 mm Approx.	Low bed- 350 mm approx./Hi-bed- 750 mm Approx.	Low bed- 350 mm approx./Hi-bed- 750 mm Approx.

IMAGE PROCESSING & ADDITIONAL SOFTWARE FEATURES

Machine diagnostics	Start-up and continuous self-diagnostics and alerts to user to indicate faults
Tagging / Zooming	Automatically tracks baggage count, date, time, operator ID / Variable zoom up to 64 X, Sniper zoom, 9 quadrant zoom.
Material discrimination	3 & 6 colour imaging, greyscale imaging, pseudo colour imaging, organic & inorganic imaging
Image storage/ Image recall & archive	Store upto 200000 images / All previous images recall possible
Additional features	4 secure levels of access, Programmable keys, horizontal & vertical imaging, high/low penetration, variable edge enhancement, variable brightness and contrast adjustment, inverse or negative color imaging, HiSpot/super enhancement, one key shut down, network ready, threat detection alert, TIP (Threat Image Projection), system work time count, X-ray work time count, operator login/logout.

OPTIONAL FEATURES & ACCESSORIES

- Dual monitor: One colour and one black & white monitor / One for top view & second for side view
- Network Supervisory Workstation (NWS), Suspect Search Station (SSS)
- Combined Test Piece (CTP), in & out camera, dust proof cover, lockable control desk,
- UPS, Stabilizer, In/out roller tables, Printer

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